

Case Study: Water Industry

Using Water to Drive an Actuator

SUMMARY:

The easiest solution for the water industry is to find an actuator that can cycle with just pressurized water. An actuator that can run using water presents an interesting opportunity for the water industry. Industry experts know it could be costly to build out a system to new locations to feed an actuator with compressed airline or electricity.

Additionally, installation space can sometimes be an issue due to the limited amount of space. AWWA specification is also a limiting factor as well.

Easytork actuators solved these challenges while also minimizing end user ownership and operating costs.

CHALLENGE:

A water production plant in Missouri, USA did not want to build and maintain compressed airlines to a section of its plant. Understandably, previous actuators installed to run with water were not achieving good service life because of metal internal components that corrode and rust when exposed to water.

The challenge is to find an actuator with good performance with water as the medium.

SOLUTION:

Starting in 2017 and continuously since, AWWA compliant Easytork actuators were installed at the water production facility and have been problem-free.

Since all the components internal of the actuator are treated to not corrode, the performance of Easytork has thus far been outstanding with water as the medium.

The last two pictures on the right show the actuator after 10,000 cycles cycled with water. There is no sign of corrosion or rust.

